

## UNITED STATES CEPARTMENT OF COMMERCE Patent and Trademark Office

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SERIAL NUMBER	FILING DATE		ST NAMED APPLICANT		ATTORNEY DOCKET NO.
17/218,312 (	7712788	HOLINBERG			
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TILVERMAN, CA	488, SINGER	W MILABOTAGE	L10°	SALMONDO LA	EXAMINER
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CHICAGO, IL «	40403			1	

ART UNIT PAPER NUMBER DATE MAILED: 0**3**/31/89

This is a communication from the examiner in charge of your application.

## COMMISSIONER OF PATENTS AND TRADEMARKS

This application has been examined Responsive to communication filed on	This action is made final.
A shortened statutory period for response to this action is set to expire month(s), day	s from the date of this letter
Failure to respond within the period for response will cause the application to become abandoned. 35	U.S.C. 133
Part I THE FOLLOWING ATTACHMENT(S) ARE PART OF THIS ACTION:	
1. Notice of References Cited by Examiner, PTO-892. 2. Notice re Patent	
3. Notice of Art Cited by Applicant, PTO-1449 4. Notice of informa	Patent Application, Form PTO-152
5. Information on How to Effect Drawing Changes, PTO-1474 6.	
Part II SUMMARY OF ACTION	
1. Claims 1-36	are ponding in the continution
	are penung in the apprication.
Of the above, claims	are withdrawn from consideration.
2. Claims	have been cancelled.
3. Claims	are allowed.
4. $\sqrt{26}$ $\sqrt{1-6}$ , $\sqrt{8-17}$ , $\sqrt{19-24}$ , $\sqrt{26-35}$ $\sqrt{18}$ , $\sqrt{25}$ and $\sqrt{36}$	are rejected.
s. Claims / 18, W ANA 38	are objected to.
6. Claims are sub	ject to restriction or election requirement.
7. This application has been filed with informal drawings which are acceptable for examination matter is indicated.	ourposes until such time as allowable subject
8. Allowable subject matter having been indicated, formal drawings are required in response to the	his Office action.
9. The corrected or substitute drawings have been received on Thes not acceptable (see explanation).	se drawings are acceptable;
10. The proposed drawing correction and/or the proposed additional or substitute sheet(s has (have) been approved by the examiner. disapproved by the examiner (see explan	) of drawings, filed onation).
11. The proposed drawing correction, filed	consibility to ensure that the drawings are
12. Acknowledgment is made of the claim for priority under 35 U.S.C. 119. The certified copy has	been received not been received
13. Since this application appears to be in condition for allowance except for formal matters, pros accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213.	
14. Other	

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Art Unit 325

Claims 30-34 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. It is not clear what article limitations are set forth by the steps of providing interconnecting means and removing the same; or even whether any further article limitations are intended. As to claim 30, lines 2-8, if the interconnection means a part of the device they should be positively recited. As to claim 30, lines 9-10, the structure of the article resulting from forming and then removing the outer guard ring is the same as that recited in the base claim contrary to 35 USC 112 which requires that a further limitation be positively set forth. Thus it does not appear that applicant is claiming that which he regards as his invention by the recitation of process steps set forth above in the article claim.

The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) and (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at

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the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

Claims 1-6, 8-17, 19-24 and 26-35 are rejected under 35 U.S.C. 103 as being unpatentable over Tuan in Hyrecell or view of Harrison and Mack et al. Tuan discloses an electro-static discharge protection network with interconnecting resistance elements but does not teach means for removing the same at the completion of the device manufacture. Harrison teaches an external buffer network means to protect the device during manufacture and for supplying test currents. The circuits of Harrison are Hynecek removed at completion of the device. It would have been obvious at the time applicant's invention was made to a person of ordinary skill in the art to have provide an external buffer and test circuit as taught by Harrison or Hynecek in the device of Tuan for discharge protection which is separable by scribe lines to provide a more compact functional device. Shunt switching means for draining large current discharges via an external circuit pad are well known as shown by Mack et al. As to claims 5, 16, and 34, the pads are rectangular and thus have corner means equivalent to that claimed. As to claims 6, 17 and 35, pads are shown at the corners in Harrison; further, the particular location of the pads is obvious to enable a plurality of pads to be situated in spaced relationship.

Claims 7, 18, 25 and 36 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all

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of the limitations of the base claim and any intervening claims.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Simmons et al shows interconnection fuse means for temporarily providing device protection.

Any inquiry concerning this communication should be directed to K.J. Ramsey at telephone number 703-557-8311.

KJ Ramsey:klw

3-29-89

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Hennth / Kamsey

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